

CLAIMS

1. An electromagnetic traffic measurement or traffic control system, which includes one or more electromagnetic induction loops comprising a pre-formed or pre-wound insulated electrically conducting material in one or a plurality of interconnected loops of a predetermined configuration, encapsulated in an outer layer or bandage adapted for adhesion to a road or pavement base as a complete composite loop configuration prior to application of a covering surface layer to the road or pavement base, wherein the outer layer or bandage comprises a bitumen impregnated geotextile base bandage adapted to support one or a plurality of insulated electrically conducting wires or cables, an upper encapsulation tape, and an overlying adhesion bandage for securing the encapsulated loop to the underlying pavement base.
2. An electromagnetic traffic measurement or traffic control system as claimed in claim 1, operatively connected to traffic monitoring or to traffic control or regulating means.
3. An electromagnetic traffic measurement or traffic control system as claimed in claim 1 or claim 2, operatively connected to traffic signals or to a gate control.
4. An electromagnetic traffic measurement or traffic control system as claimed in claim 1, wherein the pre-formed composite loop is provided in ready-to-use form for attachment to a road pavement base.
5. A method for installation of an electromagnetic traffic measurement or traffic control system of the type defined in claim 1, wherein a pre-formed encapsulated electromagnetic induction loop is attached to a road or pavement base in a predetermined configuration or position, the loop is operatively connected to traffic control or regulating means and a surface layer of asphalt or other pavement surfacing material is applied to the road or pavement base to cover and seal the said loop within the road or pavement.

6. A method as claimed in claim 5, wherein the encapsulated electromagnetic induction loop is attached to the top layer of reinforcing steel mesh in the road pavement base before being overlaid with asphalt or other pavement surfacing material.
7. An electromagnetic traffic measurement or traffic control system, which includes one or more electromagnetic induction loops comprising a pre-formed or pre-wound insulated electrically conducting material in one or a plurality of interconnected loops of a predetermined configuration, encapsulated in an outer protective layer adapted for attachment to a road or pavement surface, wherein said one or more electromagnetic induction loops is operatively connected to traffic monitoring or to traffic control or regulating means, wherein the outer layer or bandage comprises a bitumen impregnated geotextile base bandage adapted to support one or a plurality of insulated electrically conducting wires or cables, an upper encapsulation tape, and an overlying adhesion bandage for securing the encapsulated loop to a road or pavement surface.
8. An electromagnetic traffic measurement or traffic control system as claimed in claim 7, operatively connected to traffic signals or to a gate control.
9. An electromagnetic traffic measurement or traffic control system as claimed in claim 8 or claim 9, when used to measure or control traffic flow within a car park.